Virginia's Highway Safety Corridor Program

Salem District
December 2nd, 2003







Purpose

Reduce highway deaths and injuries







Background

- In 2002, 913 people died, 78,896 more were injured in highway crashes
- New VA Law helps State Police, VDOT, & DMV address safety in high crash locations
 - Increased fines in most cases doubled







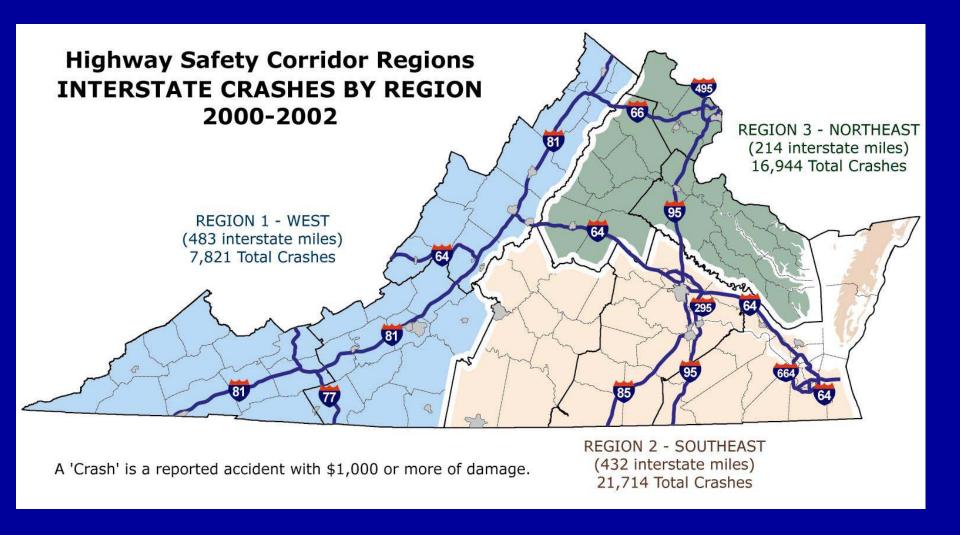
First Steps

- Hold public hearings on selection criteria
- Match selected criteria to "crash prone" locations
- Hold public hearings on proposed designated crash prone zones
 - Interstates addressed first-2003-2004
 - Primaries addressed next-2005-2006
- Hold regional focus groups for "best message" to change driving behavior















Criteria Designated by Law

- Review of crash data
- Accident reports
- Type and volume of traffic
- Engineering and traffic studies







I-81 Crash Frequency

- # Crashes along I-81 by mile-point
- Tennessee state line at left
- West Virginia state line at right
- Look at height and width of peaks
- Where above 150% of regional average

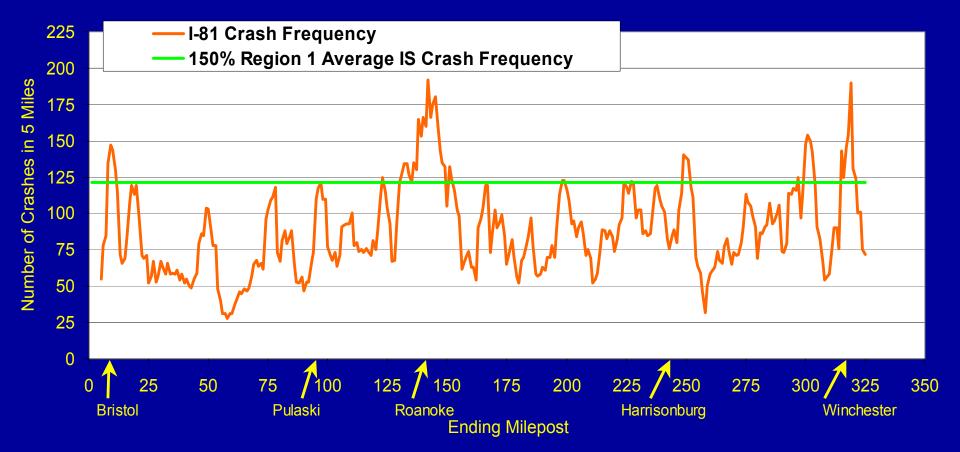






I-81 Crash Frequency

(2000-2002 Crashes)









I-81 Crash Frequency Weighted by Severity

- Previous slide total # crashes
- Also need to consider severity of crash
- Give added emphasis to injury and fatal crashes
- Look at peaks where above 150% of regional average

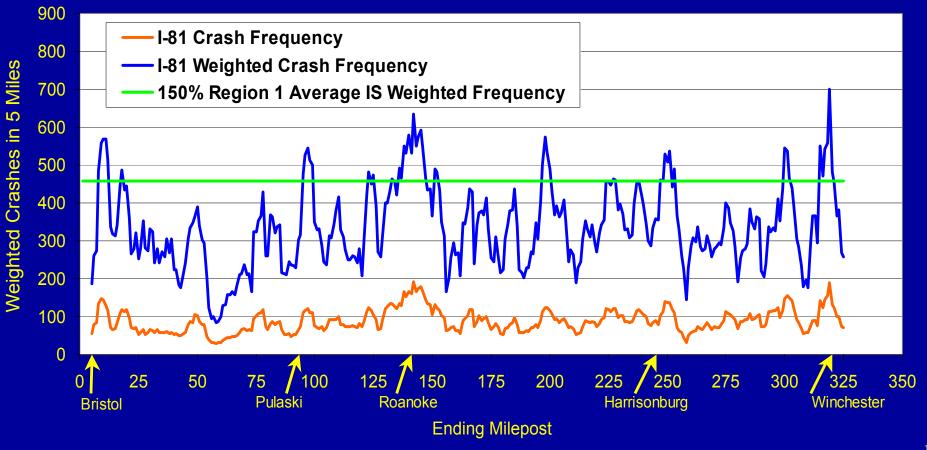






I-81 Crash Frequency Weighted by Severity

(2000-2002 Crashes, PDO=1, Injury=8, Fatal = 20)



Highway Safety Corridor Program







10

I-81 Vehicle Mix

- Tractor-trailers
- Other trucks and buses
- Passenger vehicles

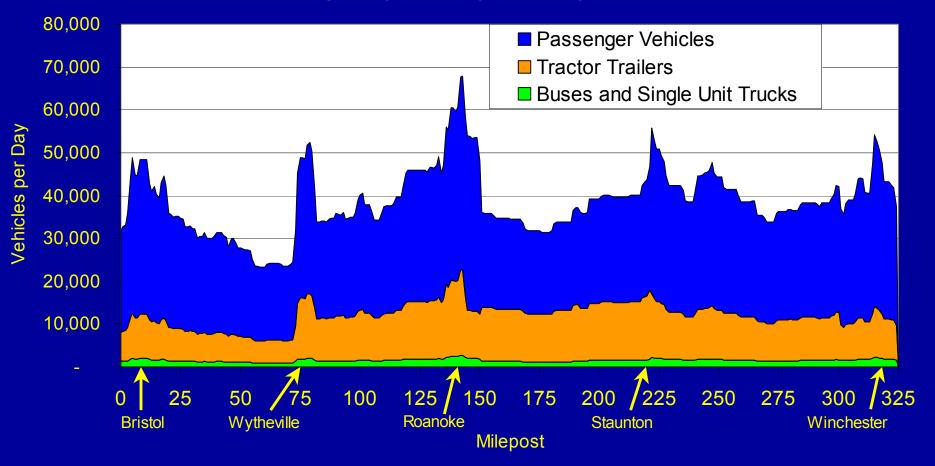






I-81 Vehicle Mix

I-81 Average Daily Traffic by Vehicle Type (2000-2002)









I-81 Crash Rates

 Adjust # crashes for # vehicles on road

 Compare high crash / high volume locations with lower crash / lower volume locations on more even basis

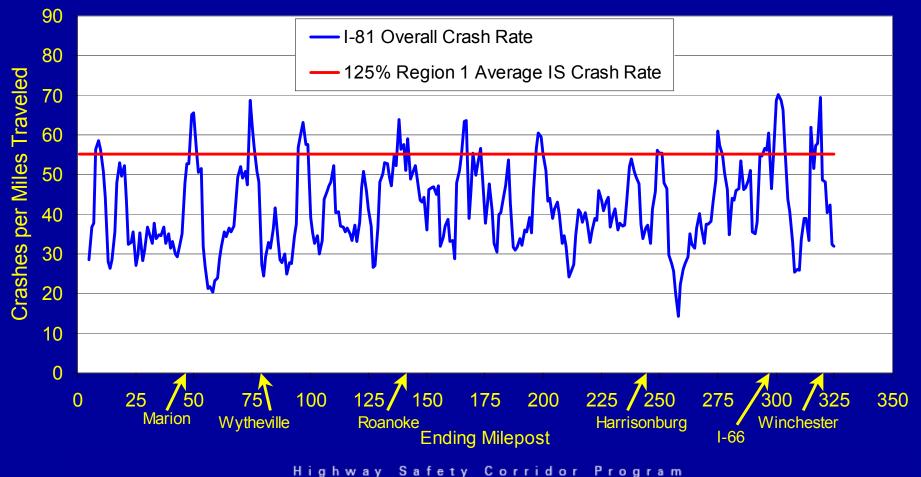






I-81 Crash Rates

(2000-2002 Crashes)









Comparing Rates for Traffic Mix

 Overall crash rate versus truckinvolved crash rate

 NOTE: Truck involved crash does not mean truck caused crash

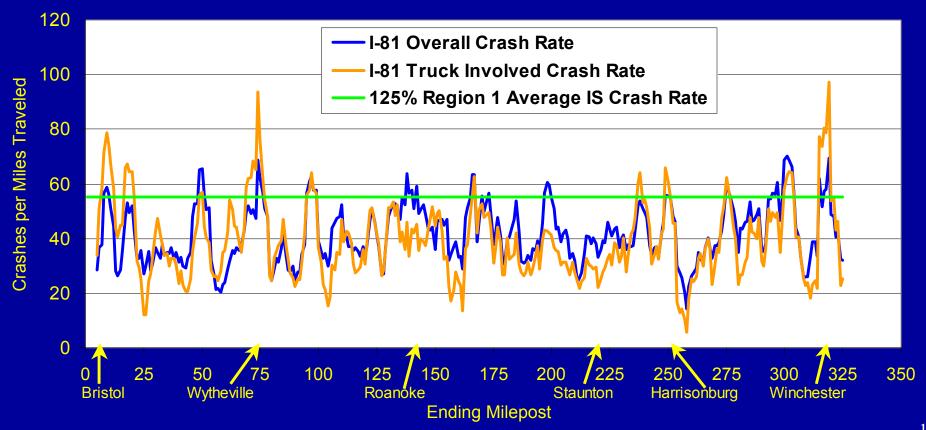






Comparing Rates for Traffic Mix

I-81 Crash Rate Comparison:
All Traffic and Truck Involved (2000-2002 Crashes)









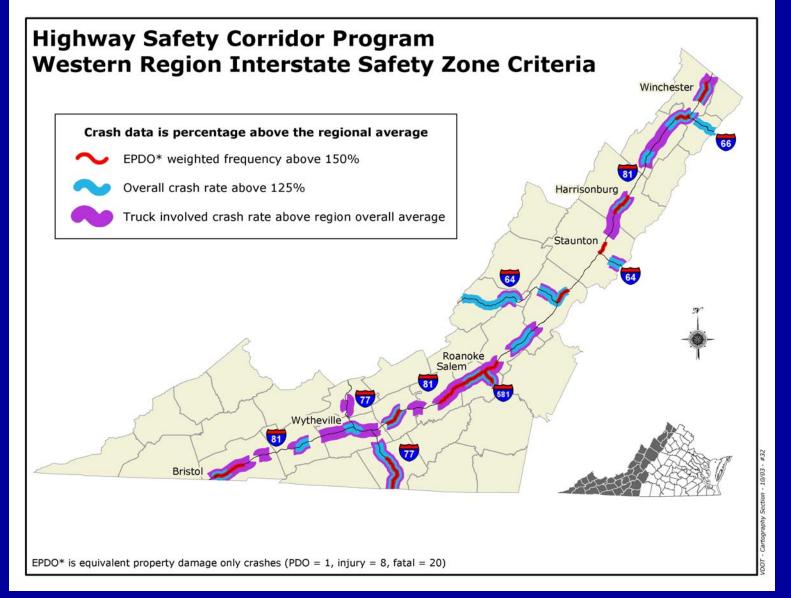
Proposed Safety Criteria

- Crash frequency
- Overall vehicle crash rate
- Truck involved crash rate
- Enforcement considerations
- Roadway characteristics















Proposed I-81 Zone

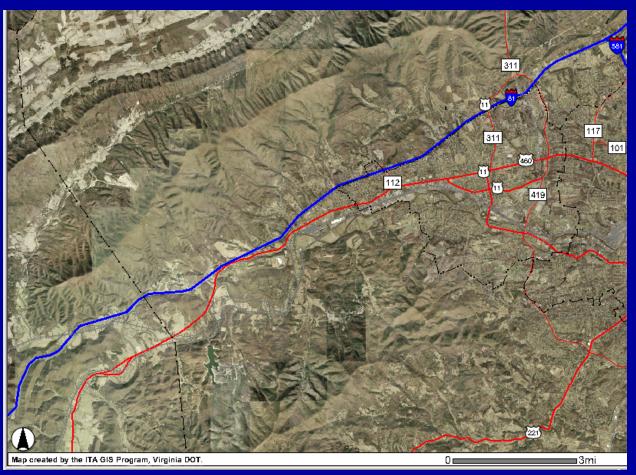
- MP 127 to MP 142 15 Miles
 - -South of Rt 603/11 (Ironto) to South of I-581 (Roanoke)
 - In Roanoke and Montgomery Counties and Cities of Salem and Roanoke







Proposed I-81 Zone MP 127 to MP 142



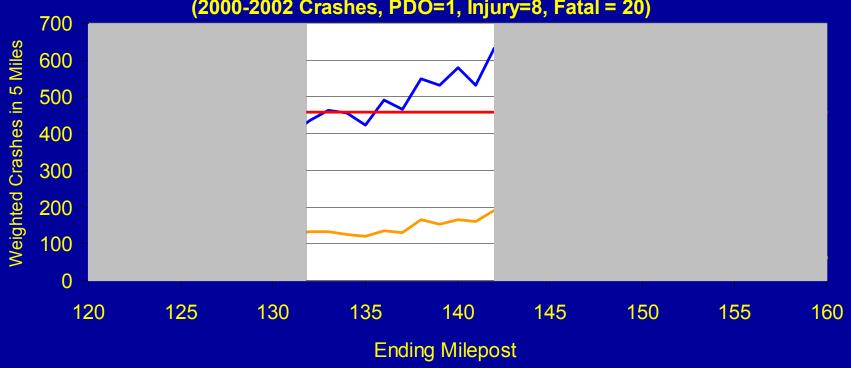






Safety Zone Crash Severity

I-81 Weighted Crash Frequency (MP 127 to 142) (2000-2002 Crashes, PDO=1, Injury=8, Fatal = 20)



-I-81 Crash Frequency --- I-81 Weighted Crash Frequency --- 150% Region 1 IS Weighted Average

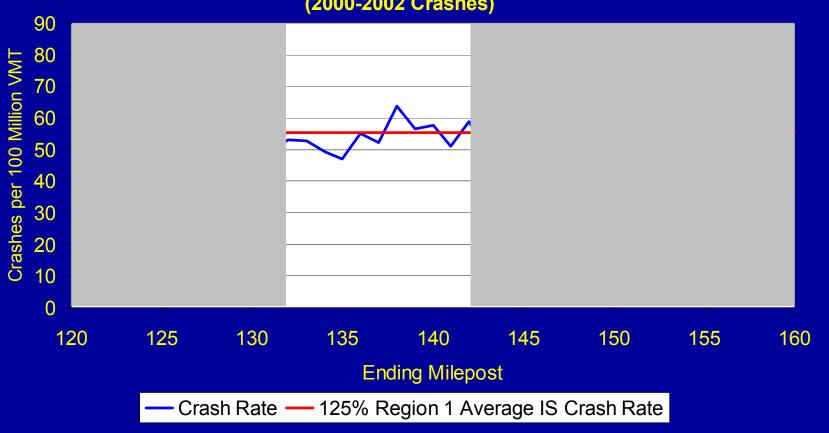






Safety Zone Crash Rates

I-81 Crash Rate (MP 127 to 142) (2000-2002 Crashes)



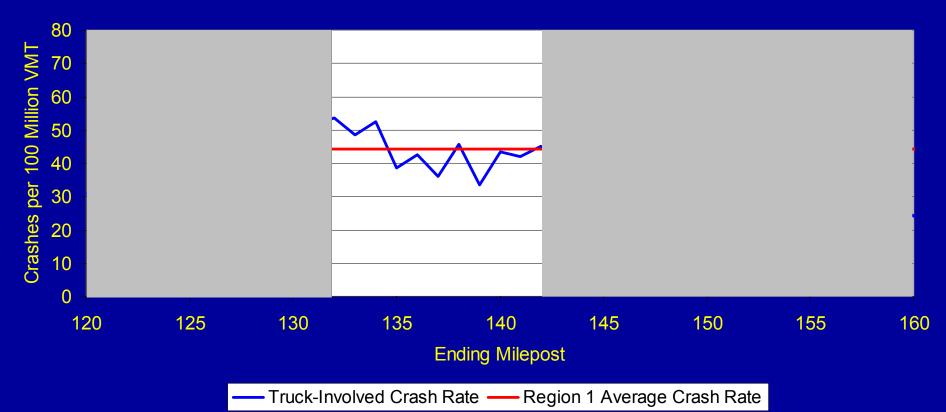






Safety Zone Vehicle Mix

I-81 Truck Involved Crash Rate (MP 127 to 142) (2000-2002)









Proposed I-81 Zone MP 127 to MP 142

<u>Year</u>	Fender <u>Bender</u>	Injury <u>crash</u>	Fatal <u>crash</u>	Total crashes
2000	84	54	0	138
2001	103	38	0	141
2002	115	62	0	177
	302	 154	0	456







I-81 MP 127 to MP 142 Crash Type Summary

Crash Type	<u>Percentage of Crashes</u>
Fixed Object – Off Road	29.8%
Rear End	26.6%
Sideswipe – Same Direction	n 15.2%
Deer/Other Animal	14.3%
Fixed Object – In Road	4.9%
Non-collision	4.9%
All Other Crashes	4.3%







I-81 MP 127 to MP 142 Major Factors in Crashes

<u>Major Factor</u>	Percentage of Crashes
Driver Inattention	58.4%
Road Slick	13.9%
Driver Handicap	7.5%
Driver Speeding	6.9%
Vehicle Defective	6.1%
Weather/Visibility Condition	ons 4.3%
Driver Under the Influence	
of Alcohol or Drugs	2.9%







Next Steps

- Jan. Dec. 2004
 - Designate regional interstate zones
 - Hold public hearings for additional interstate zones
 - Launch public awareness campaign
- Jan. Dec. 2005
 - Analyze potential primary highway zones
 - Monitor, evaluate & report annually







Proposed I-81 Zone MP 127 to MP 142

<u>Year</u>	Fender <u>Bender</u>	Injury <u>crash</u>	Fatal <u>crash</u>	Total <u>crashes</u>
2000	84	54	0	138
2001	103	38	0	141
2002	115	62	0	177
	302	 154	0	456







Virginia's Highway Safety Corridor Program

Working Together To Make A Difference





